

I claim:

1. A host computer system such that it receives information from the outside, rasterizes it, compresses the rasterized image and transmits it to a device, which decompresses that image and displays it on a screen.
2. A host computer system that receives a compressed image from the outside, decompresses it then recompresses it and transmits it to a device, which decompresses that image and displays it on a screen.
3. A device as claimed in claims 1 or 2 such that information sent to the device remains compressed, and parts of the image viewed as a user scrolls through the image are decompressed, prior to viewing.
4. A device as claimed in claims 1 or 2 such that the information the host computer gets from the outside is from the Internet.
5. A device as claimed in claims 1 or 2 such that text characters selected on a touch screen keyboard appear in a text area, and when a send command is executed on the device, a string of text characters from the text area is sent to a specific location on a virtual browser in the host computer, whereby the host computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed.
6. A device as claimed in claims 1 or 2 such that each text character selected on the device is sent and entered in a virtual browser in the host computer in a location selected for text input, whereby the host computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed.
7. A device as claimed in claims 1 or 2 such that for each text character selected on an electronic touch screen keyboard on the screen of the device, the

matrix locations of the touch screen are sent from the device to the host computer, which translates these into text characters subsequently entered in a virtual browser in the host computer in a location selected for text input, whereby the host computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed.

8. A device as claimed in claims 1 or 2 such that when a user clicks on a location on the display, a message is sent to the host computer which determines if text input is required at that specific location, and if required, an electronic touch screen keyboard is invoked and appears in the screen of the device.

9. A device as claimed in claims 1 or 2 such that an electronic touch screen keyboard on the screen of the device automatically disappears, when a text message is sent from a text area on the screen of the device to a virtual browser in the host computer, whereby the host computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed.

10. A device as claimed in claims 1 or 2 such that an external keyboard with a wired or wireless interface to the device inputs text in a text window on the screen of the device, with scroll bars for wider viewing access, whereby text messages from the text window are sent from the device to a virtual browser in the host computer as a string of text characters, whereby the host computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed.

11. A device as claimed in claims 1 or 2 such that an external keyboard with a wired or wireless interface to the device inputs text in a text window on the screen of the device, whereby each text character selected is sent from the device to a virtual browser in the host computer individually, whereby the host

computer sends a refreshed portion of the virtual browser back to the device as an image, to be displayed for each text character sent.

5 12. A device as claimed in claims 1 or 2 such that the image received and displayed in a virtual browser in the host computer, is compressed in various amounts in the host computer before sending to the device, whereby text portions of the image are compressed by methods that give no errors in decompression, and graphic portions of the image are compressed by less accurate means, such that text and graphics get compressed separately at the host computer and then sent to the device.

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15 13. A device as claimed in claims 1 or 2 such that text and graphics from a web page on the host computer are converted to monochrome or color raster images of various depths of color, at a virtual browser in the host computer prior to compression and sending to the device.

20 14. A device as claimed in claims 1 or 2 such that at a virtual browser in the host computer, the priority of decompression is determined by the depth of color of the image, with the minimum depth being decompressed first.

25 15. A device as claimed in claims 1 or 2 such that text or monochrome portions of the image are decompressed first and displayed on the screen, with color portions decompressed and overlain in parts of the image shortly after.

30 16. A device as claimed in claims 1 or 2 such that the device contains internal memory with related micro-electronics to store and view rasterized web pages or other images.

17. A device as claimed in claims 1 or 2 such that the device contains internal memory with related micro-electronics to generate, store and view text files to

be transmitted to a virtual browser in the host computer at any time, when connected to a cellular phone or other transmitting means.

5 18. A device as claimed in claims 1 or 2 such that the screen of the device contains icons which represent specific commands, linked to icons or menu items on a virtual browser in the host computer, such that the virtual browser may contain icons in different locations than icons on the device, whereby the device contains in a memory a mapped location address of all icons and menu commands on the virtual browser, such that any icon selected on the device is linked to the appropriate command or sequence of commands on the virtual browser, which are immediately executed.

15 19. A device as claimed in claims 1 or 2 such that that the screen of the device contains icons which represent specific commands, linked to icons or menu items on a virtual browser in the host computer, such that the virtual browser may contain icons in different locations than icons on the device, whereby the virtual browser has a mapped location of all icons on the device, such that a message is sent to the host computer for any command executed by the device, informing of the specific icon location selected which is translated into appropriate commands.